

In re: Application of Larry F. LEMANSKI et al.
Serial No.: 10/822,496
Page 2 of 15

AMENDMENTS TO THE SPECIFICATION

Please replace the paragraph on page 7, lines 15-19, with the following:

FIG. 3. shows alignment of DNA sequences encoding normal (SEQ ID NO: 1) and mutant (SEQ ID NO: 4) MIR RNA sequences. The indicated 166 bp MIR nucleotide sequence from normal embryos is capable of "rescuing" heart function in mutant embryos. Comparison of nucleotide sequences in normal and cardiac mutant (c/c) embryos reveals a G to T point mutation at position 93 (G93T, *) within the mutant sequence.

Please replace the paragraph on page 8, lines 3-6, with the following:

FIG. 5A and 5B is a diagram showing the predicted secondary structure of normal (FIG. 5A) and point-mutated (FIG. 5B) (G93T) MIR. The left portion of the structure is identical in normal and mutant RNAs; however, there is a significant difference between normal and mutant RNAs in the right portion of the structure.

Please replace the paragraph on page 8, lines 16-18 with the following:

FIG. 8A shows a full-length cDNA sequence of axoSmN (SEQ ID NO.: 7) from the Mexican axolotl. The underlined sequence within the 5' untranslated region is a 100% match with a portion of the MIR cDNA encoding bioactive MIR. FIG. 8B shows an amino acid sequence for axoSnN (SEQ ID NO.: 8).